

WHAT IS CLAIMED IS:

1. A liquid crystal display element comprising:

a pair of bases of which one base is a transparent base transmitting light;

liquid crystals having negative dielectric anisotropy sealed between the pair of bases; and

an inorganic alignment layer formed on each surface of the pair of bases facing toward the liquid crystals, the alignment layer orientating a pre-tilt angle of the liquid crystals toward an angle of 3 to 10 degrees.

2. A method of forming an alignment layer of a liquid crystal display element comprising:

a pair of bases of which one base is a transparent base transmitting light;

liquid crystals having negative dielectric anisotropy sealed between the pair of bases; and

an inorganic alignment layer formed on each surface of the pair of bases facing toward the liquid crystals, the alignment layer orientating a pre-tilt angle of the liquid crystals toward an angle of 3 to 10 degrees,

the method is further characterized in that

each of the pair of bases is displaced in a filming apparatus such that vapor stream of a material for the inorganic alignment layer displaced in the filming apparatus enters into each of the pair of bases at an angle of 40 to 60 degrees with respect to each normal line of the pair of bases,

a gas pressure of either oxygen gas or inert gas introduced into the filming apparatus is controlled so as to conduct the pre-tilt angle to

be an angle of 3 to 10 degrees, and that

the inorganic alignment layer is formed by being evaporated on
each surface of the pair of bases.